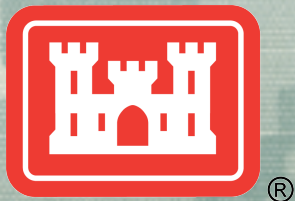


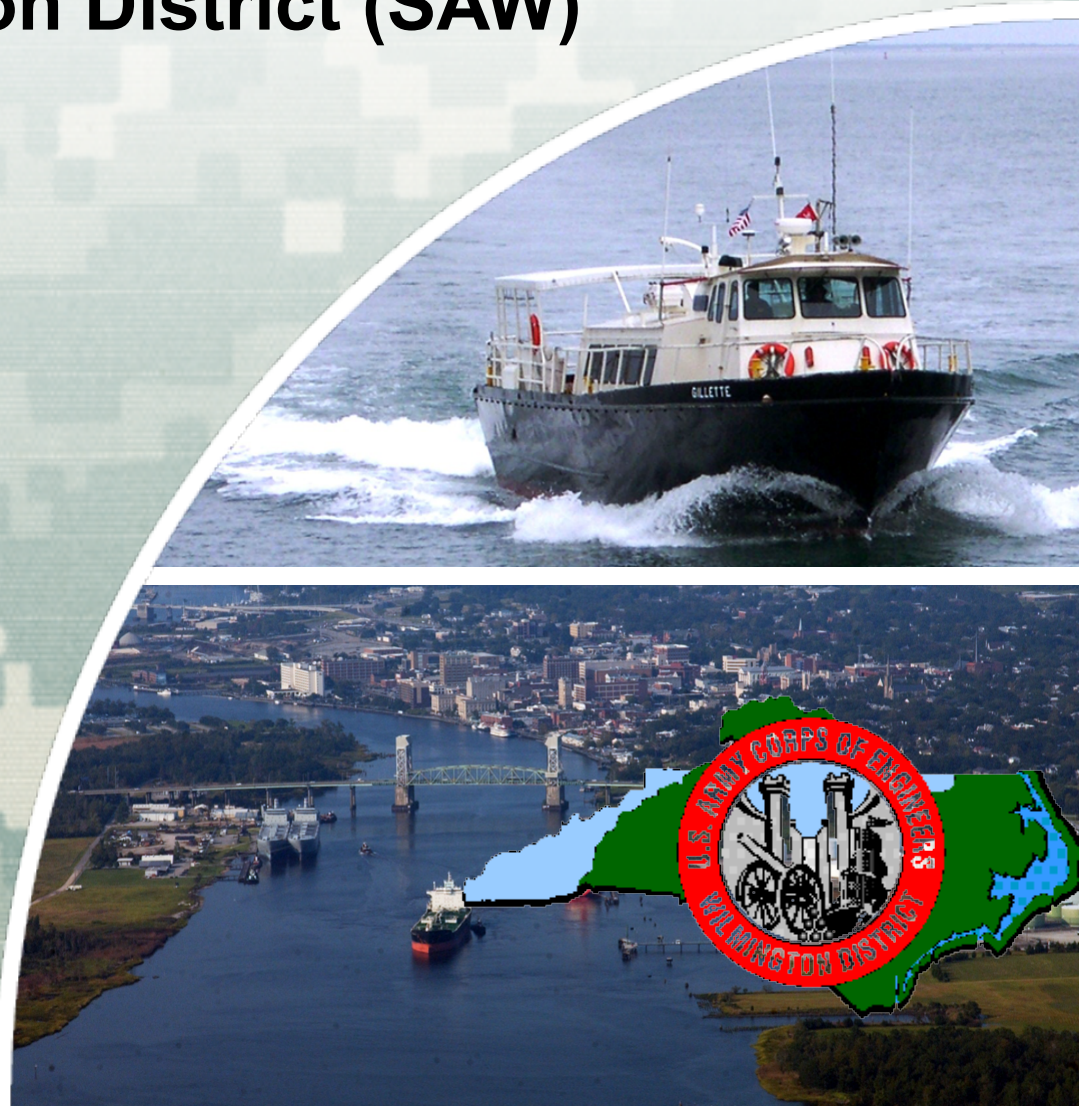
# WEDA EASTERN CHAPTER ANNUAL MEETING

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## South Atlantic Division (SAD) Wilmington District (SAW)

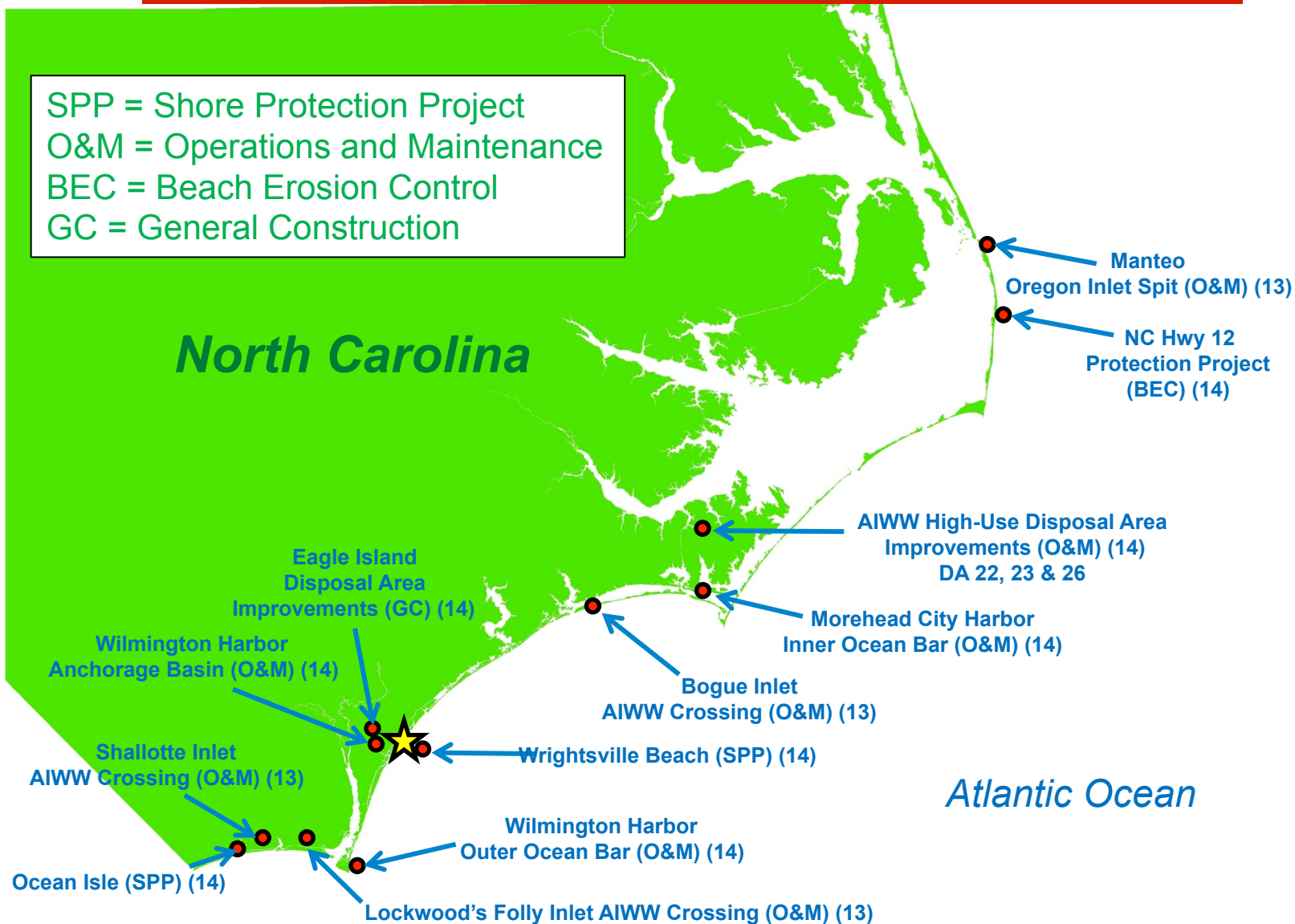


US Army Corps of Engineers  
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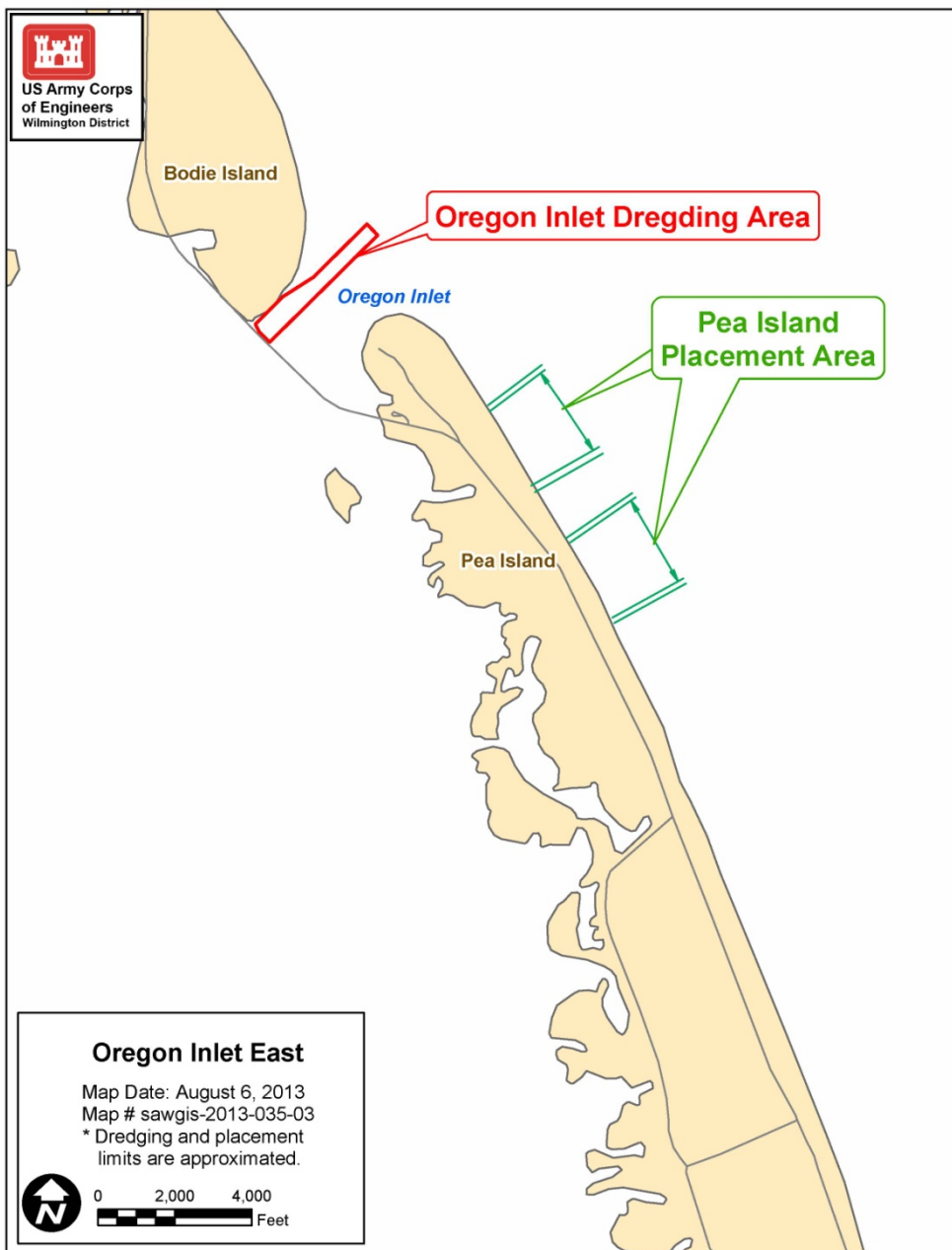


# Overview of SAW FY 13/14 Dredging Projects

SPP = Shore Protection Project  
O&M = Operations and Maintenance  
BEC = Beach Erosion Control  
GC = General Construction



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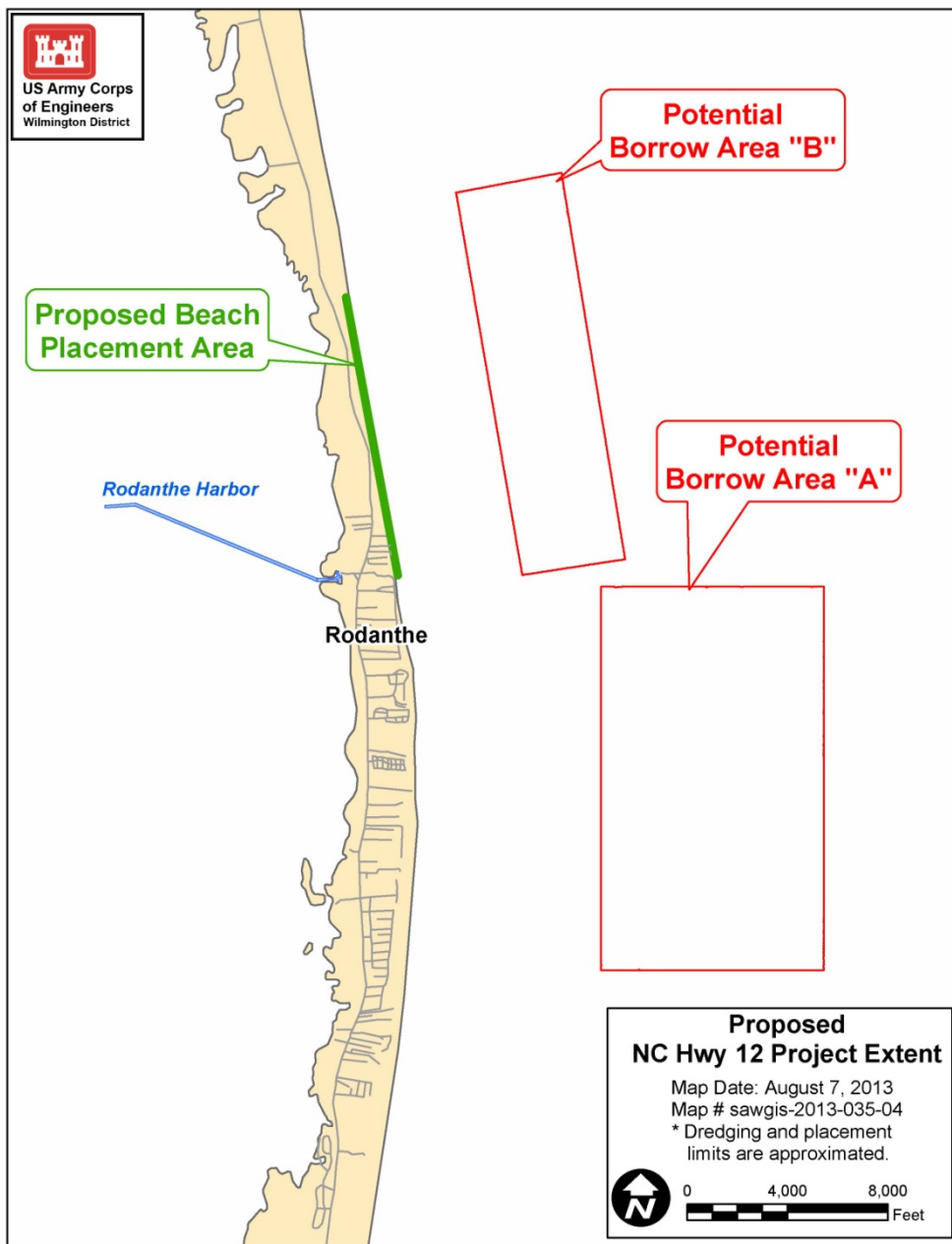


<b>Project:</b>	<b>Manteo (Shallowbag) Bay Oregon Inlet Spit</b>
Dredging Depth:	14 ft (required); + 2 ft
Dredging Width:	400 ft – 600 ft
Dredging Length:	~ 4,000 ft
Dredging Quantity:	~ 600,000 cubic yards
Material Type:	Sand
Placement Area:	Pea Island
Distance to Place Area:	1.5 – 3 miles
Type of Equipment:	Pipeline
Env. Window:	August 15 – December 31
Reason for Window:	Sea Turtle Nesting
Award Date:	8/20/2013
Scheduled NTP Date:	10/15/2013
Scheduled Start Date:	11/1/2013



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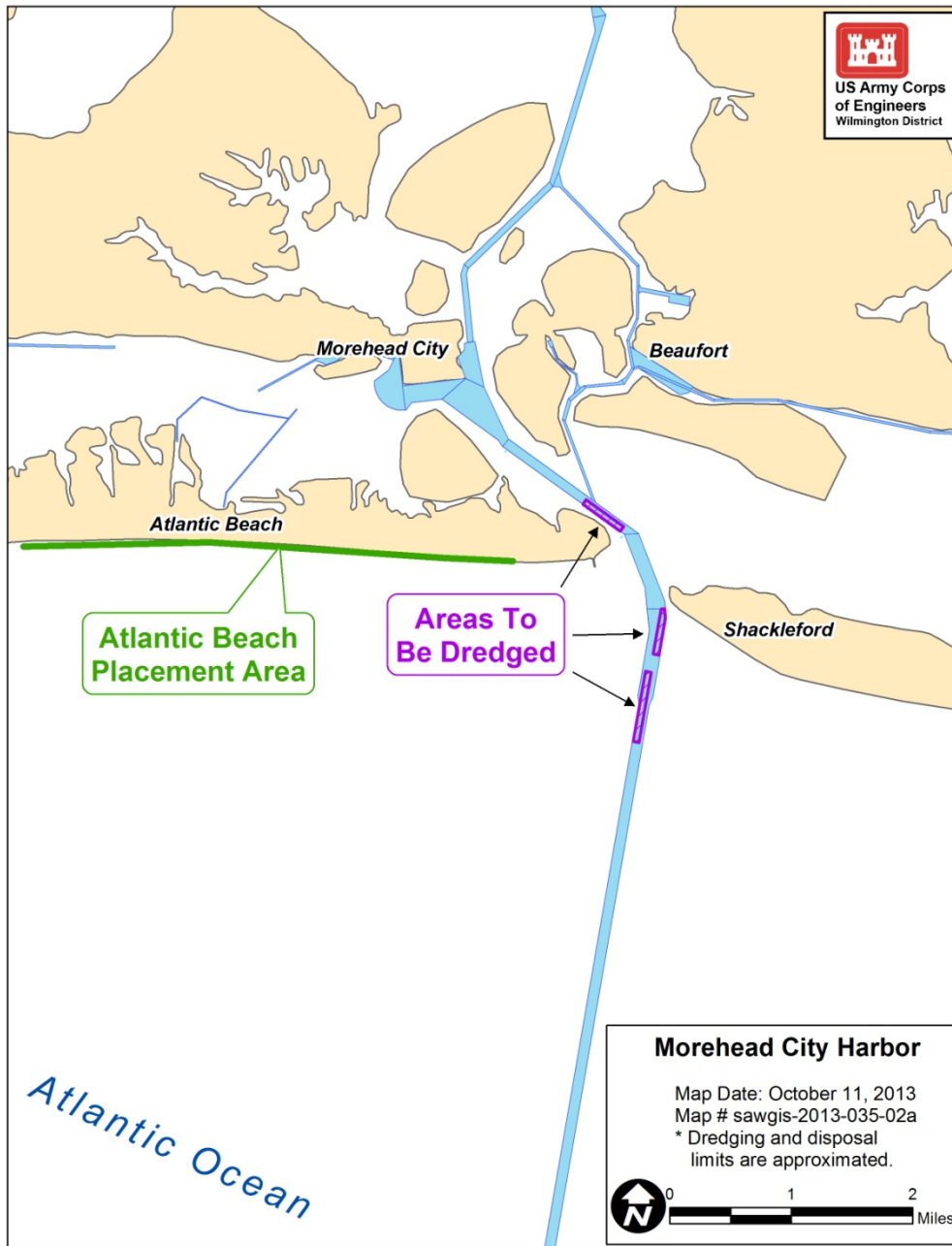


<b>Project:</b>	<b>NC Highway 12 Protection Project</b> Rodanthe, NC
<b>Scope of Work:</b>	Beach Erosion Control – Support to the NCDOT
<b>Material Type:</b>	Sand
<b>Borrow Area:</b>	Offshore
<b>Placement Area Pea Island:</b>	Est. Placement Quantities 1,700,000 cubic yards
<b>Distance to Place Area:</b>	2 - 5 miles
<b>Type of Equipment:</b>	Hopper / Pipeline Dredge
<b>Allowable Work Period:</b>	August 15 – May 15
<b>Scheduled Issue Date:</b>	October 2013
<b>Scheduled Award Date:</b>	November 2013



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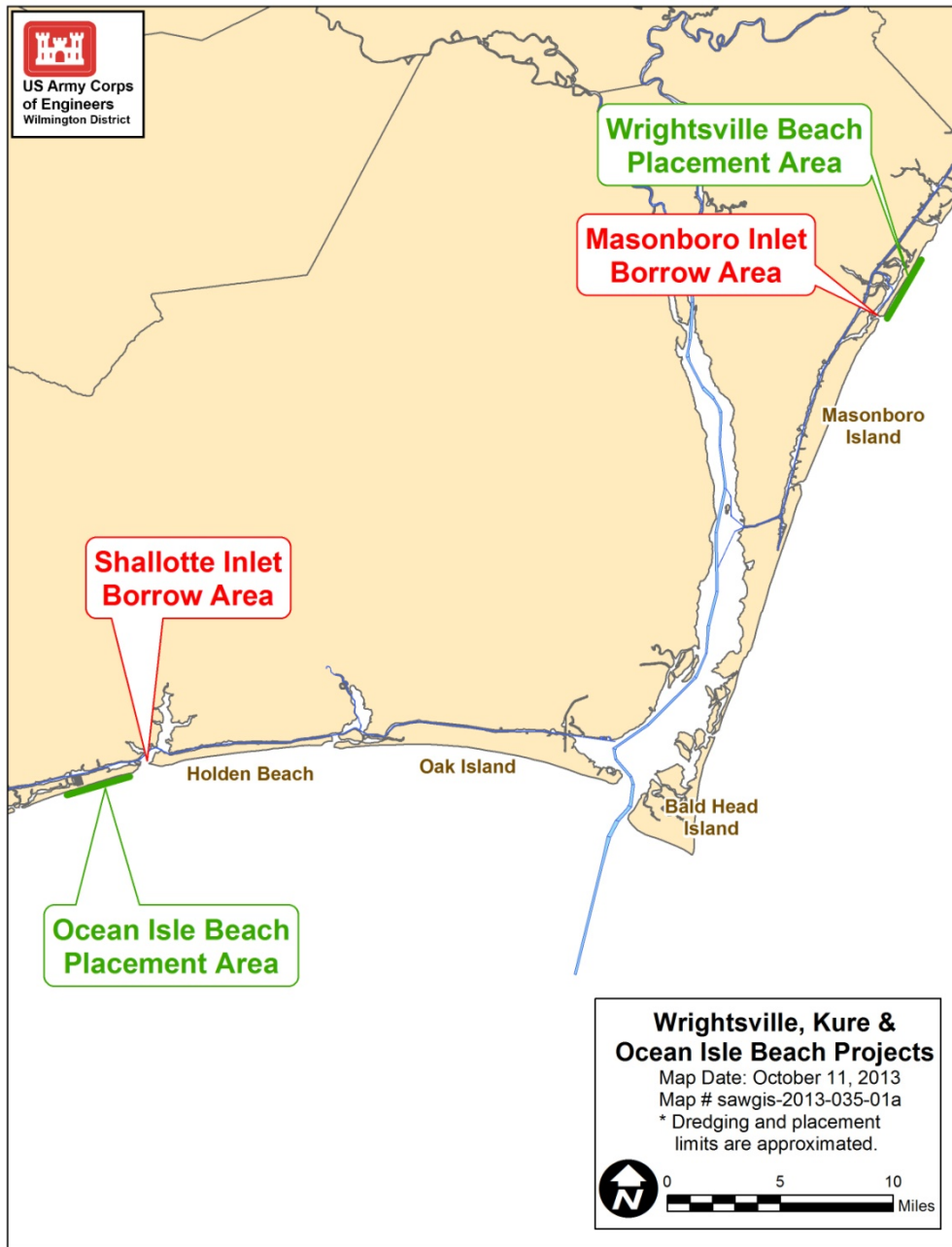




<b>Project:</b>	<b>Morehead City Harbor Ocean Bar – Beach Disposal</b>
Dredging Depth:	45 ft (required); + 2 ft
Dredging Width:	400 - 650 ft
Dredging Length:	~ 4 miles
Dredging Quantity:	~ 520,000 cubic yards
Material Type:	Sand
Placement Area:	Fort Macon / Atlantic Beach
Distance to Place Area:	2 – 5 miles
Type of Equipment:	Pipeline
Env. Window:	November 16 – April 30
Reason for Window:	Sea Turtles
Sch. Issue Date:	11/01/2013
Sch. Proposals Due:	12/02/2013
Sch. Start Date:	01/01/2014



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<b>Project:</b>	<b>Wrightsville Beach, Carolina Beach, and Ocean Isle Beach</b>
<b>Scope of Work:</b>	Coastal Storm Damage Reduction
<b>Material Type:</b>	Sand
<b>Placement Areas</b> Wrightsville Beach: Ocean Isle Beach:	Est. Placement Quantities 700,000 cubic yards 640,000 cubic yards
<b>Distance to Place Area:</b>	Varies
<b>Type of Equipment:</b>	Pipeline
<b>Env. Windows:</b> (Sea Turtle Nesting)	November 16 – April 30
<b>Sch. Issue Date:</b>	11/5/2013
<b>Sch. Proposals Due:</b>	12/6/2013
<b>Sch. Start Date:</b>	01/05/2014



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# Wilmington District Points of Contact

**Roger Bullock – Deputy Chief, Operations Division**  
(910) 251-4822

[roger.d.bullock@usace.army.mil](mailto:roger.d.bullock@usace.army.mil)

**Bob Keistler – Navigation Project Manager**  
(910) 251-4709

[robert.w.keistler@usace.army.mil](mailto:robert.w.keistler@usace.army.mil)



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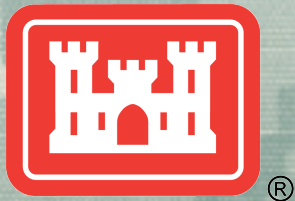
# CHARLESTON DISTRICT DREDGING PROGRAM UPDATE 2013

**David Warren, PE/PMP**

**Civil Works Project Manager**

USACE Charleston District

OCTOBER 2013



US Army Corps of Engineers  
**BUILDING STRONG®**

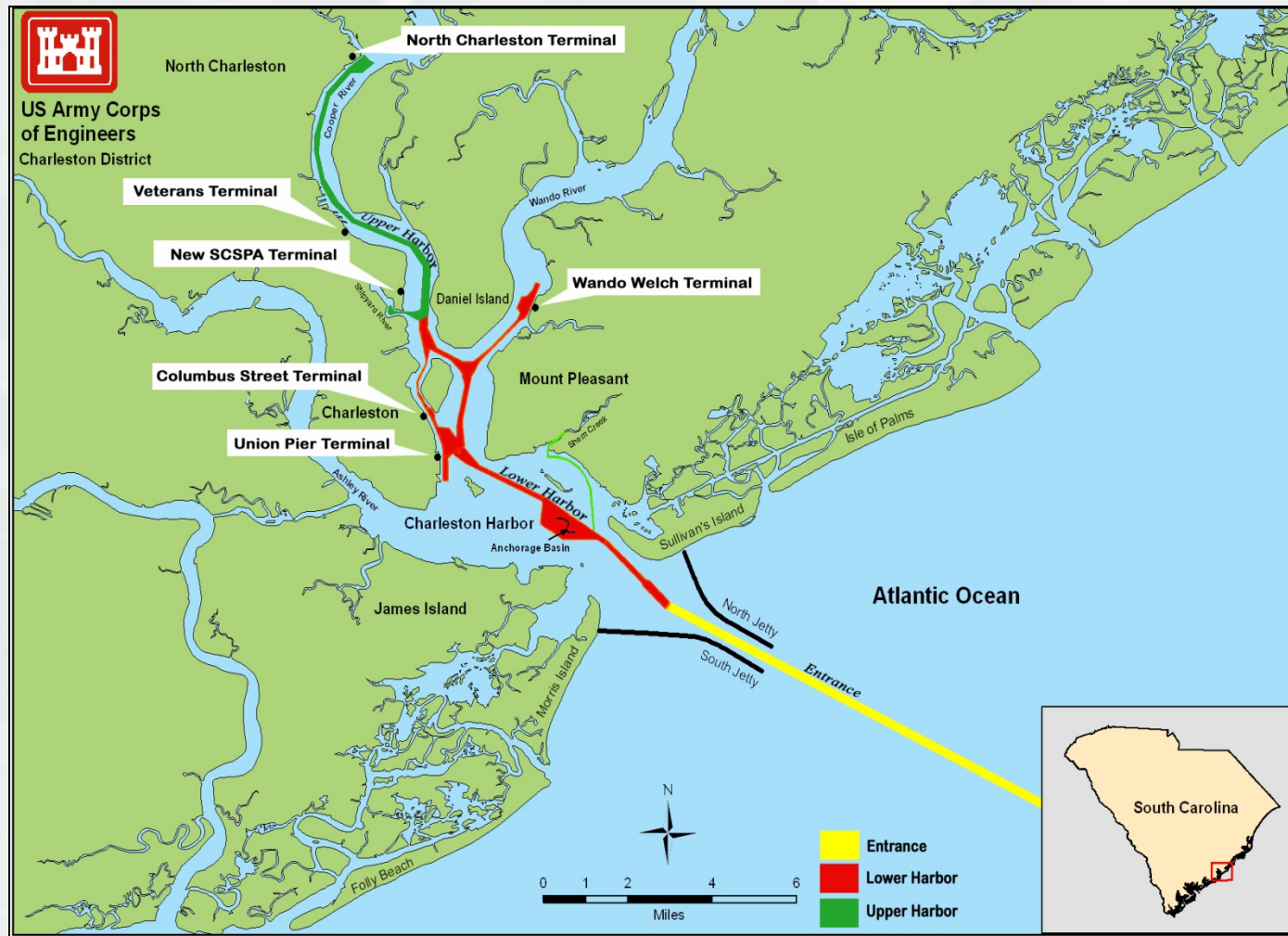


# Charleston Harbor

- Channel 38.6 Miles Long
- Authorized Depth 45 FT
- Three Dredging Reaches
  - ▶ Entrance Channel (17.3 Miles Long)
    - Offshore Disposal
  - ▶ Lower Harbor
    - Offshore Disposal
  - ▶ Upper Harbor
    - Upland Disposal
- Average Federal Channel Maintenance Material Removed
  - ▶ 2 Million CYDS



# Charleston Harbor



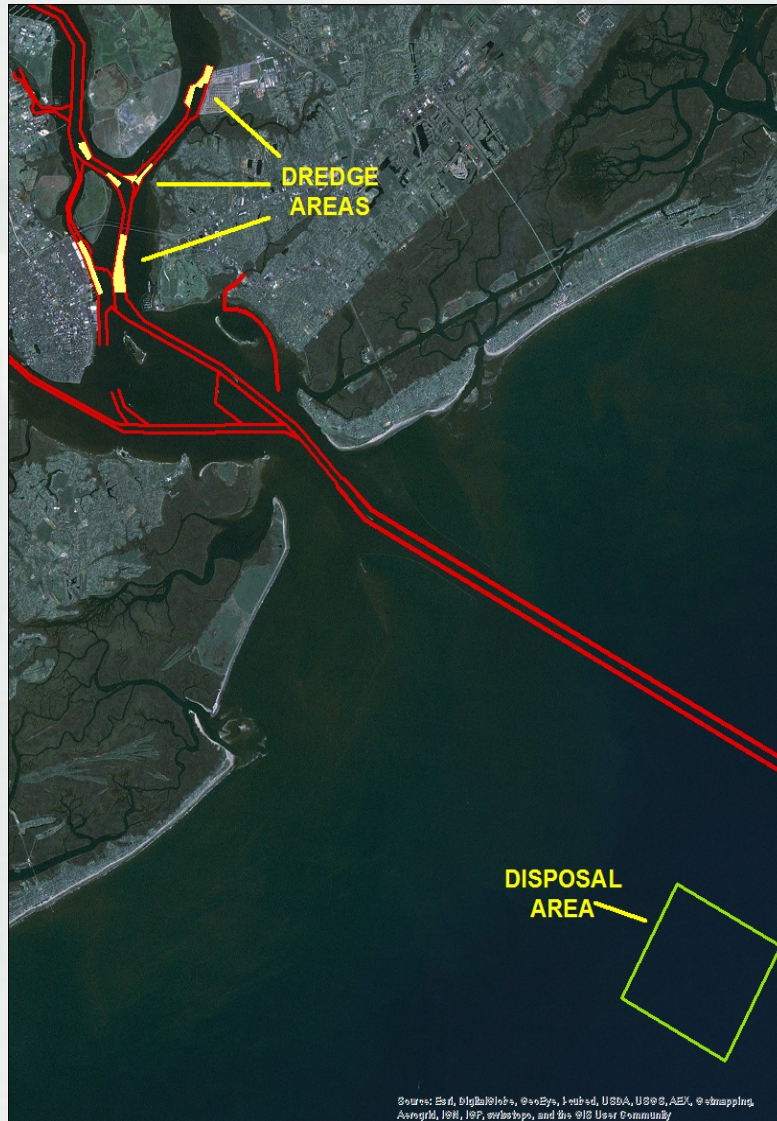
(45ft)

(45ft)





# LOWER HARBOR CHARLESTON O&M



Location: Charleston County, SC

Dredge Type: Clamshell

Placement: ODMDS

Quantity: 630,000 cy.

Depth: 45' + 2' allowable over depth

Award: \$5,668,050-Great Lakes

Issue IFB: February 2013

Receive IFB: March 2013

Award: 26 April 2013

Issue NTP: May 2013

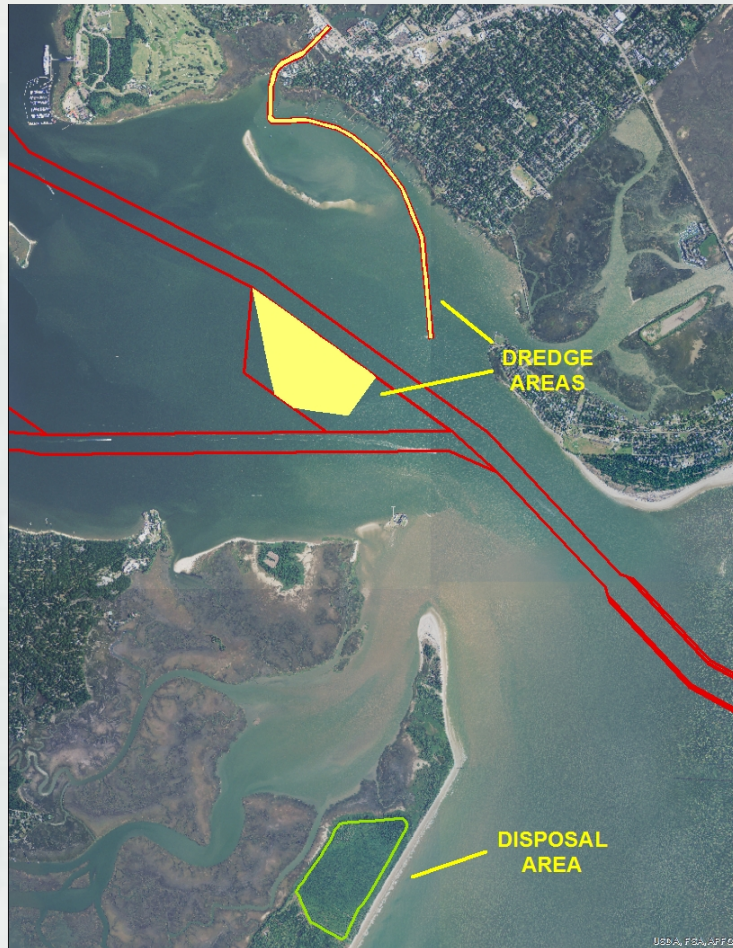
Commence Dredging: May 2013

Dredge Complete: July 2013



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# LOWER HARBOR SUPPLEMENTAL CHARLESTON O&M



Location: Charleston County, SC

Dredge Type: Cutter-suction

Placement: DMMA, Morris Island

Quantity: 450,000 cy.

Depth: Anchorage-32' + 2' allowable over depth

Depth: Shem Creek-12'+2' allowable over depth

Award: \$5,668,050-Cottrell

Issue RFP: April 2013

Receive RFP: May 2013

Award: 20 June 2013

Issue NTP: May 2013

Commence Dredging: December 2013

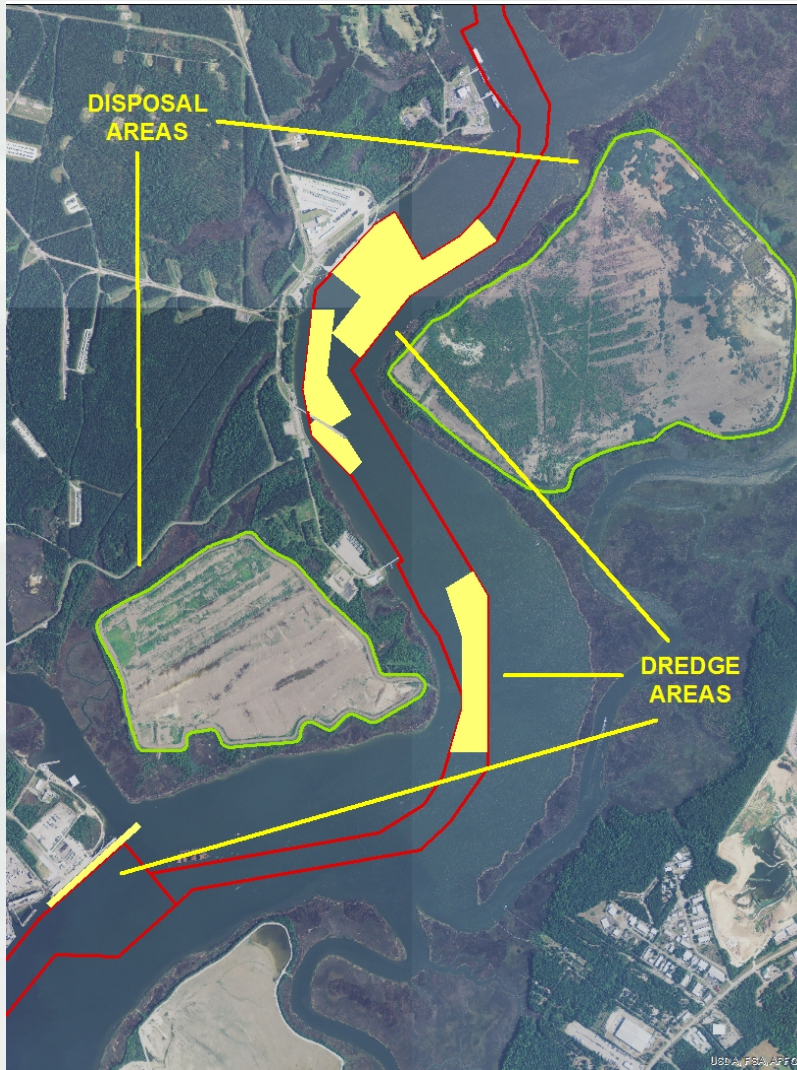
Dredge Complete: March 2014



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# JOINT BASE CHARLESTON O&M



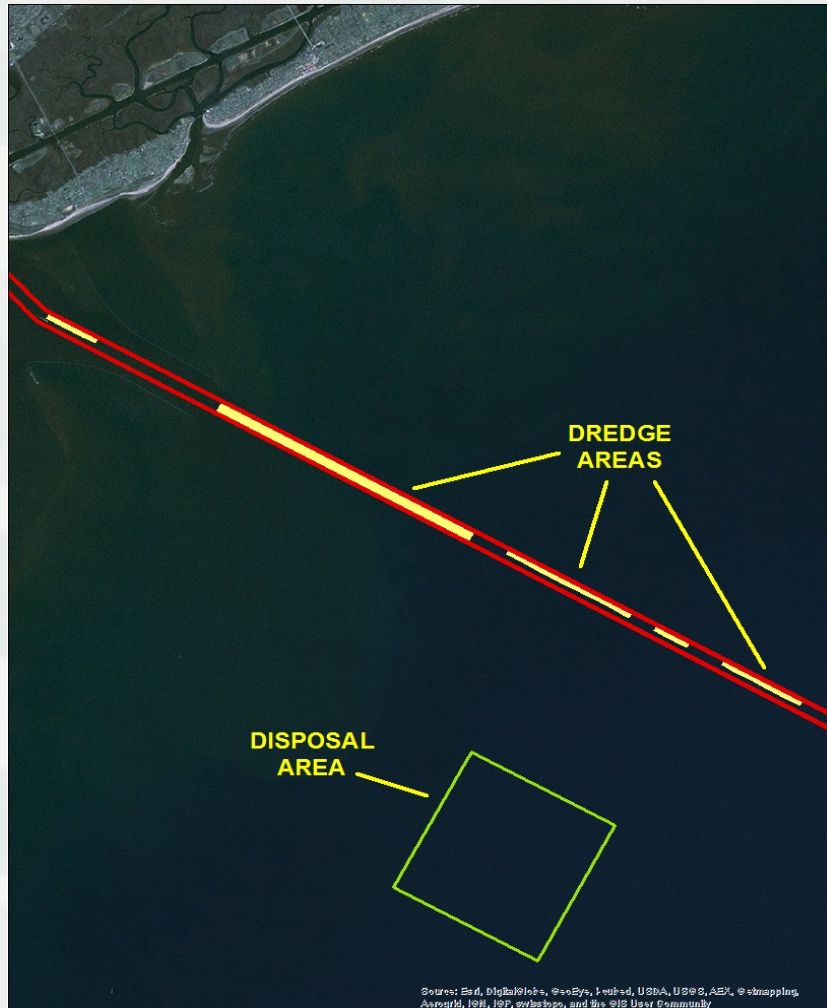
Location: Berkeley County, SC  
Dredge Type: Cutter-suction  
Placement: DMMA, Yellow House/NWS  
Quantity: 1,466,000 cy.  
Depth: 37' - 40'+ 2' allowable overdepth  
Award: \$4,080,780-Southern Dredging NA  
Issue IFB: June 2013  
Receive IFB: July 2013  
Award: 12 September 2013  
Issue NTP: 21 October 2013  
Commence Dredging: Anticipate Nov 13  
Dredge Complete: Anticipate February 14



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# ENTRANCE CHANNEL CHARLESTON O&M



Location: Charleston County, SC

Dredge Type: Hopper

Placement: ODMDS

Quantity: 1,500,000 cy.

Depth: 47+ 2' allowable overdepth

Issue RFP: August 2013

Receive RFP: September 25

Award: 15 November 2013

Issue NTP: Dec 2013

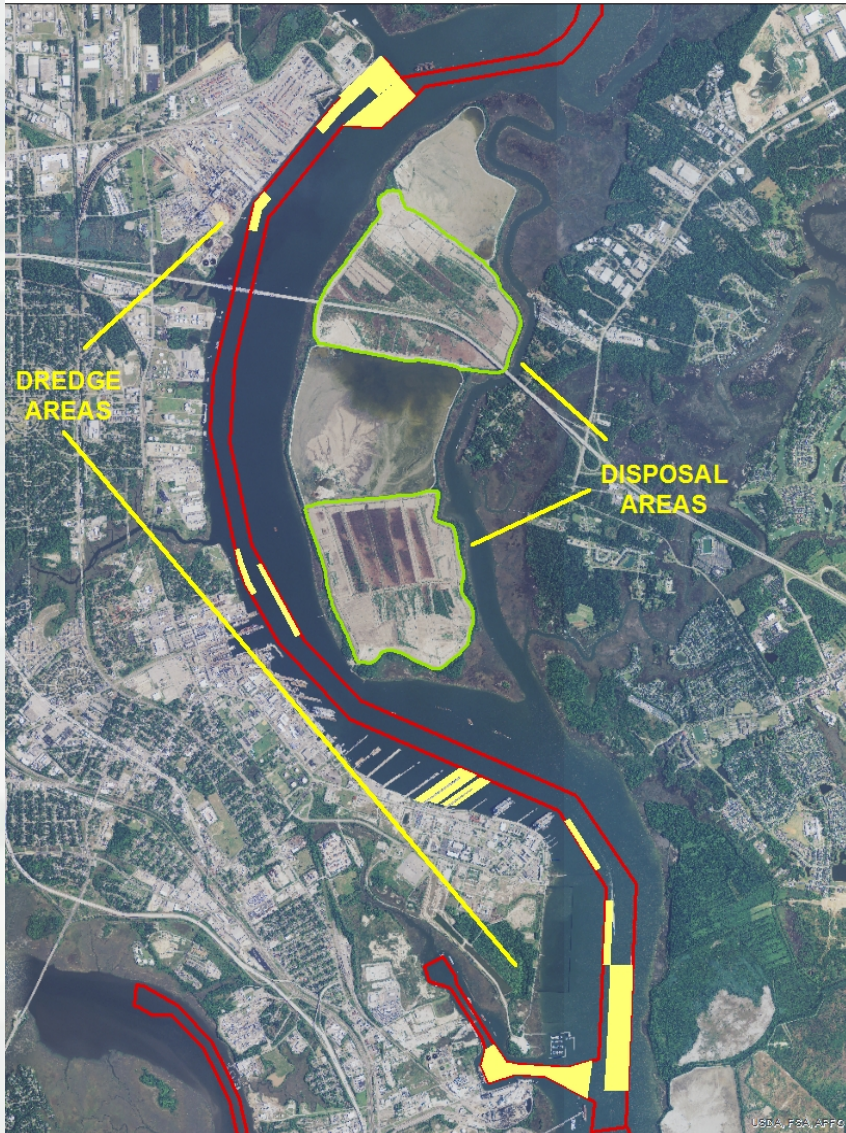
Commence Dredging: December 2013/  
January 2014

Dredge Complete: February/March 2014



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# UPPER HARBOR O&M



Location: Charleston County, SC

Dredge Type: Cutter-suction

Placement: DMMA, Clouter Creek/Yellow House

Quantity: 1,700,000 cy.

Depth: 45' + 2' allowable over depth

Award: TBD

Issue IFB: May 2014

Receive IFB: June 2014

Award: July 2014

Issue NTP: August 2014

Commence Dredging: September 2014

Dredge Complete: Anticipate February 2015



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# Future Work 2014-2018

- FY14
  - ▶ Charleston Entrance Channel (Dredging window Dec-March)
  - ▶ Folly Beach (TBD)
  - ▶ Charleston Upper Harbor
  - ▶ AIWW-\$0
- FY 15
  - ▶ Charleston Lower Harbor
  - ▶ Clouter Creek Dike Raising
  - ▶ Joint Base Charleston
  - ▶ AIWW-TBD





# **NAD/SAD Eastern Regional Dredging Meeting**

***Savannah District***



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# ***Civil Works & Navigation Boundaries***



# ***Navigation Projects***



◆ Sav'h Harbor	32.5 Miles
◆ AIWW	161 Miles
◆ Brunswick	24 Miles

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<b>Total</b>	<b>217.5 Miles</b>
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# Scheduled FY14 Dredging Work in Savannah District

## South Atlantic Division

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
<b>Savannah &amp; Brunswick Entrance Channels *</b>	BO 4			Sea Turtles-screens & observers Est. 1,500 K CY								
<b>Hydraulic Pipeline Dredge Maintenance Dredging</b>												
<b>Savannah &amp; Brunswick Inner Harbors</b>			BO 9			Striped bass spawning				DO Window		
								Est. 6,000K CY				



# Savannah District

## FY 14 Hopper Dredge Program



# Scheduled FY14 Dredging Work in Savannah District

## South Atlantic Division

Hopper Dredge  
Maintenance Dredging

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
Savannah & Brunswick Entrance Channel *	BO 4			Sea Turtles-screens & observers Est. 1,500K CY								





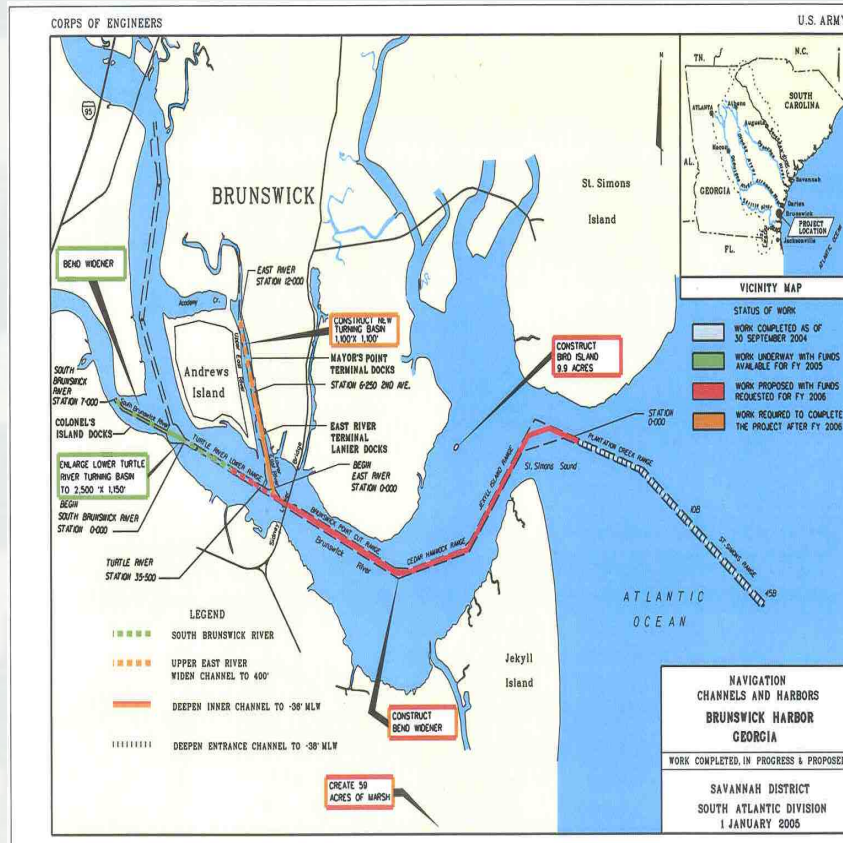
# Savannah District



- Project: Savannah Entrance Channel
- Type of work: Maintenance
- Depth: 42/44 ft
- Width: 600 ft
- Length: 11.4 miles
- Quantity: 600 Kcy
- Type of Material: sand/silt/clay
- Placement Areas: EPA approved ocean site
- Distance to Placement Area: up to 11.5 miles
- Type of Equipment: Hopper
- Small Business Set Aside: No
- Last Dredged: FY13
- Environmental Window: Dec 15- March 31
- Reason for Window: Right Whales and Sea Turtles



# Savannah District



- Project: Brunswick Entrance Channel
- Type Work: Maintenance
- Depth: 36/38 feet
- Width: 500 feet
- Length: 16.8 miles
- Quantity: 900 Kcy
- Type of Material: Sand/silt/clay
- Placement Areas: EPA approved ocean site
- Distance to Placement Area: up to 19 miles
- Type of Equipment: Hopper
- Small Business Set Aside: No
- Last Dredged: FY13
- Environmental Window: Jan 1- Feb 28
- Reason for Window: Right Whales and Sea Turtles



# Savannah District

## FY14 Hydraulic Cutter Head Dredge Program





# Scheduled FY14 Dredging Work in Savannah District

## South Atlantic Division

Hydraulic Pipeline Dredge  
Maintenance Dredging

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
Savannah & Brunswick Inner Harbor			BO 9									

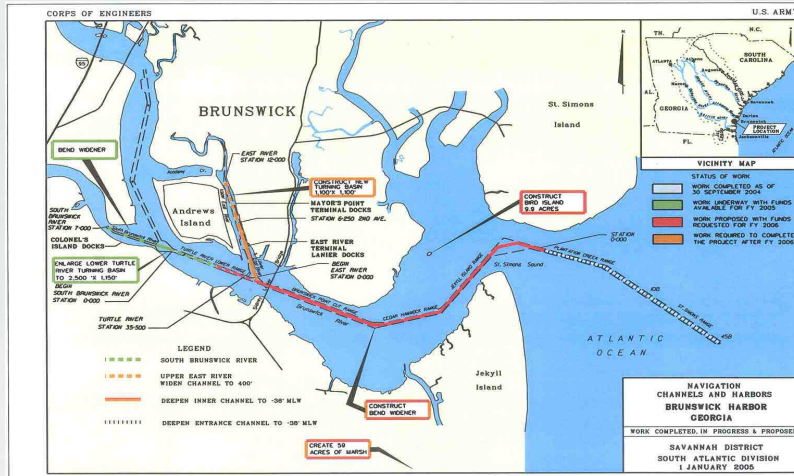
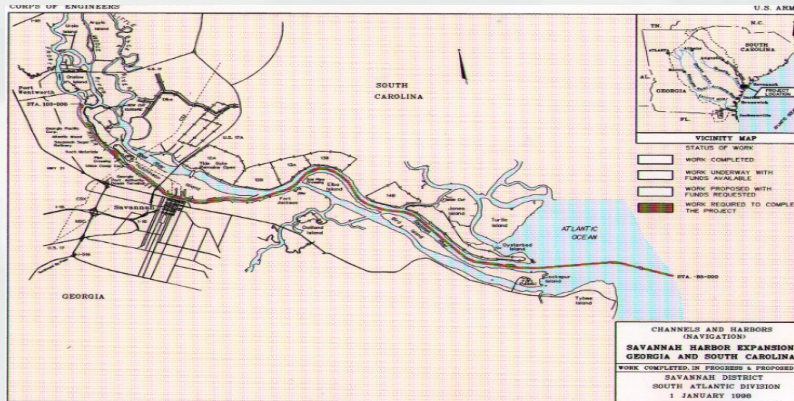
Striped bass spawning

DO Window

Est. 6,000K CY



# Savannah District



- Project: Savannah & Brunswick Inner Harbors
- Type of work: Maintenance
- Depth: (SH)40/46 ft, (BH)36 ft
- Width: (SH)500 ft, (BH)400 ft
- Length: (SH)21.3 miles, (BH)3 miles
- Quantity: 6.0 Mcy
- Type of Material: sand/silt/mud
- Placement Area: Upland placement sites
- Distance to Placement Area: up to 2 miles
- Type of Equipment: Hydraulic cutterhead pipeline
- Small Business Set Aside: No
- Last Dredged: FY13
- Environmental Window: (SH) March 15-May 30 & July 1-September 30 (above Station 63+000) (BH) April 1-August 1
- Reason for Window: (SH) Striped Bass Spawning & Low DO (BH) Least tern nesting



**NAD/SAD EASTERN  
REGIONAL  
DREDGING MEETING**

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**SAVANNAH DISTRICT  
NEW WORK  
DREDGING PROGRAM**



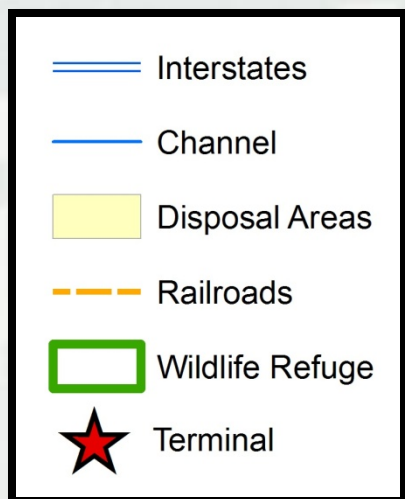


# Savannah Harbor Expansion Project

- SHEP will deepen Savannah Harbor to 47 feet MLLW (5 feet deeper)
  - Yields **\$174 M** in total annual net benefits
  - Project First Cost **\$652 M** at FY 12 price levels
  - Benefit to Cost Ratio of **5.5 to 1**
  - Annual O&M costs increase from **\$22 M to \$27 M**
  - Environmental impacts can be mitigated to an acceptable level
  
- Who, What, Where and When?

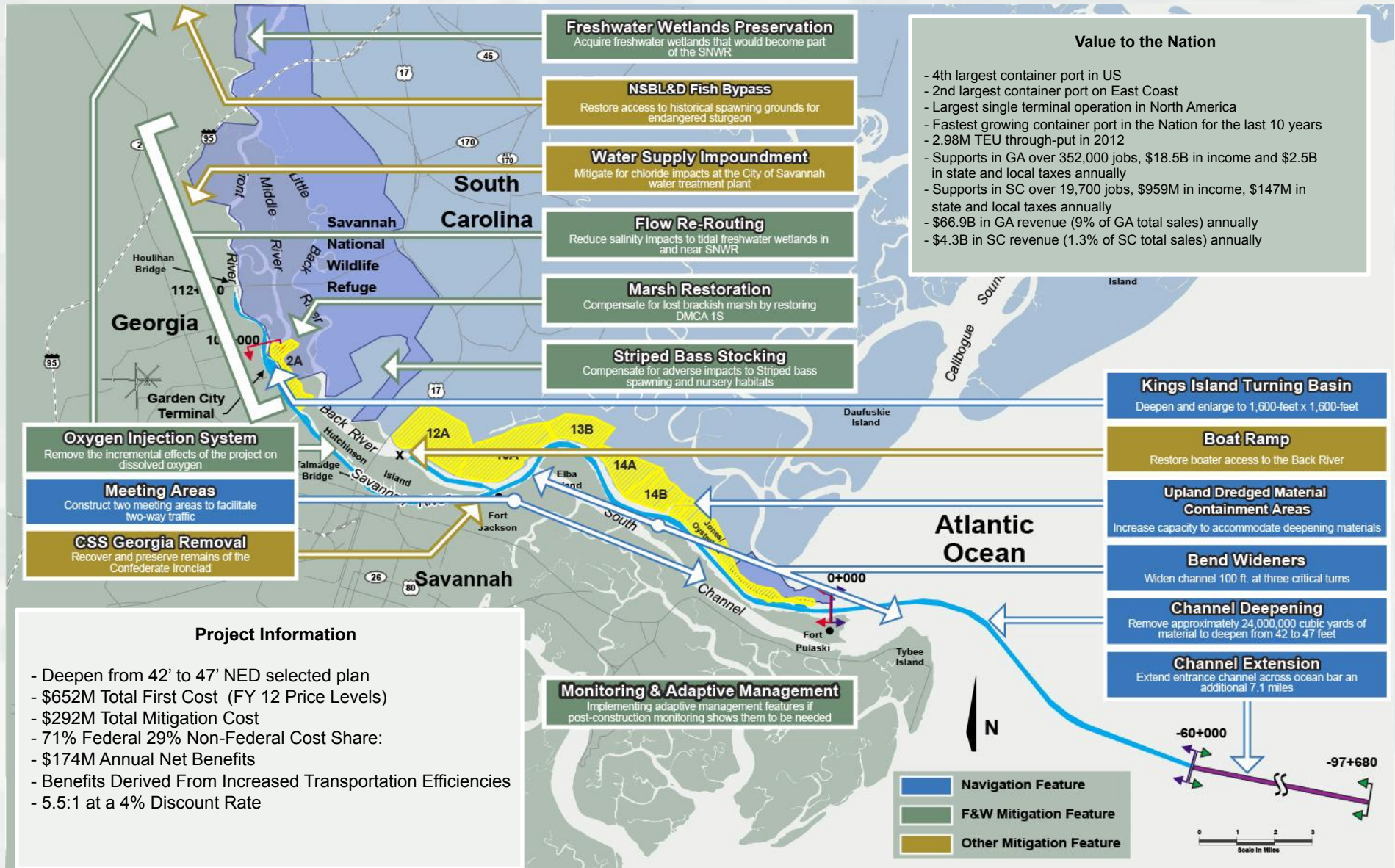


# Savannah Harbor Location





# 47' NED Selected Plan

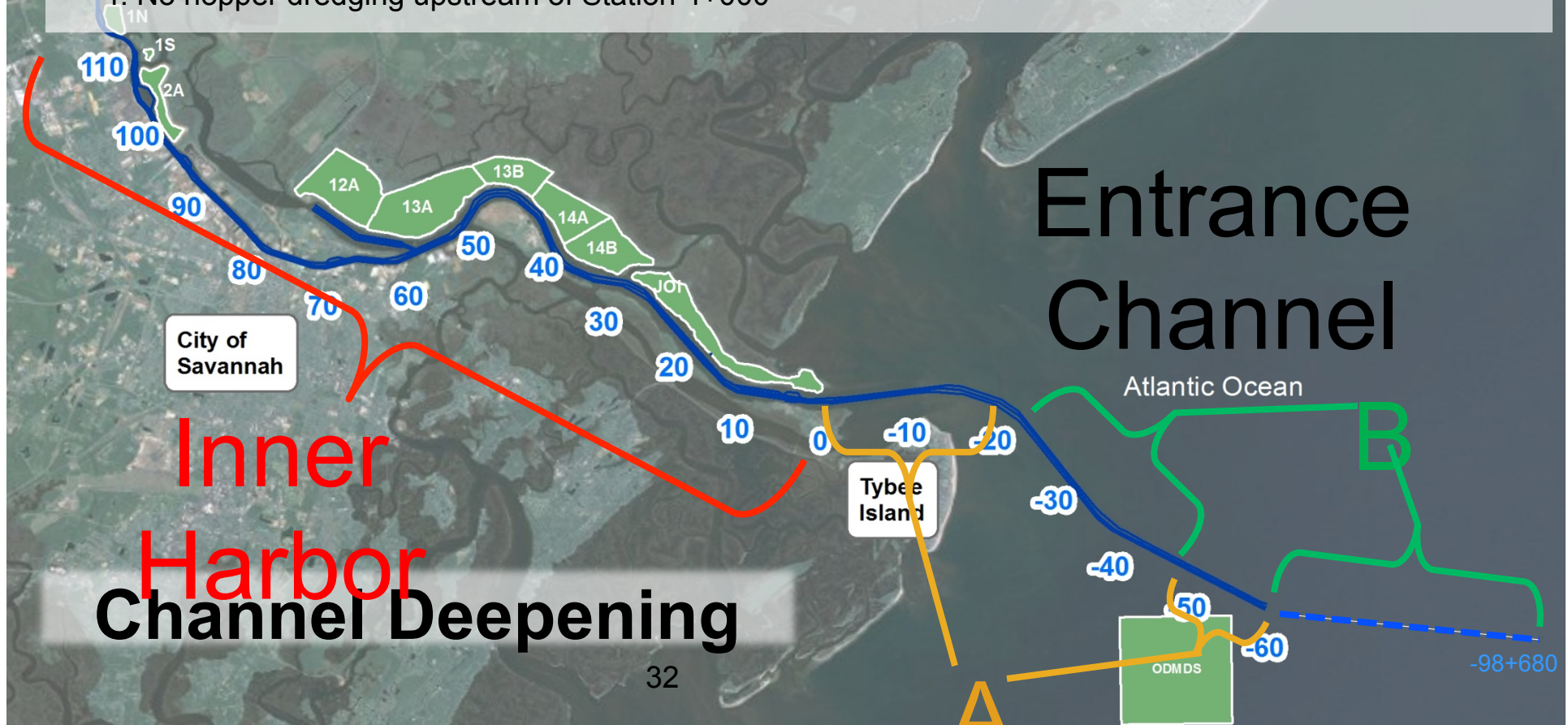




Area	Duration	Equipment/Placement	Volume
Entrance A	1 <sup>st</sup> – 3 <sup>rd</sup> Const Year	Cutter/Mechanical/Hopper* to JOI	3.743 MCY
Entrance B	1 <sup>st</sup> – 3 <sup>rd</sup> Const Year	Cutter/Mechanical/Hopper* to ODMDS	8.361 MCY
Inner Harbor	2 <sup>nd</sup> – 5 <sup>th</sup> Const Year	Cutter/Mechanical** to 12A, 13A, 14A/B, JOI	20.592 MCY

#### Environmental Windows

1. Construction of McCoy Cut diversion structure must occur between May 15 and Nov 1
- \* 2. No hopper dredging conducted in the entrance channel between Apr 1 and 14 Dec
- \*\* 3. No inner harbor dredging conducted upstream of Station 63+360 between April 1 and May 15
4. No hopper dredging upstream of Station 4+000



# Dredging Schedule

Milestone	Date
Final Agency Approvals	<b>11 Jul 2012</b>
Corps' Chief's Report	<b>20 Aug 2012</b>
Record of Decision	<b>Nov 2012</b>
<i>902 Fix</i>	<i>Nov 2013</i>
<i>Enter Construction Cost Share Agreement (PPA)</i>	<i>Feb 2014</i>
<i>Advertise Entrance Channel Dredging</i>	<i>Mar 2014</i>
<i>Advertise Inner Harbor Dredging</i>	<i>Mar 2016</i>

*Italic Dates Represent Optimistic Schedule & Unconstrained Funding*

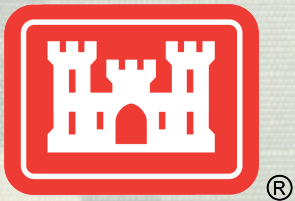




# **WEDA EASTERN CHAPTER ANNUAL MEETING**

## **South Atlantic District (SAD) Jacksonville District (SAJ)**

**Jacqueline J. Keiser, P.G., PMP**  
Chief, Coastal/Navigation Section  
Water Resources Branch  
Jacksonville District



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**US ARMY CORPS OF ENGINEERS | JACKSONVILLE DISTRICT**





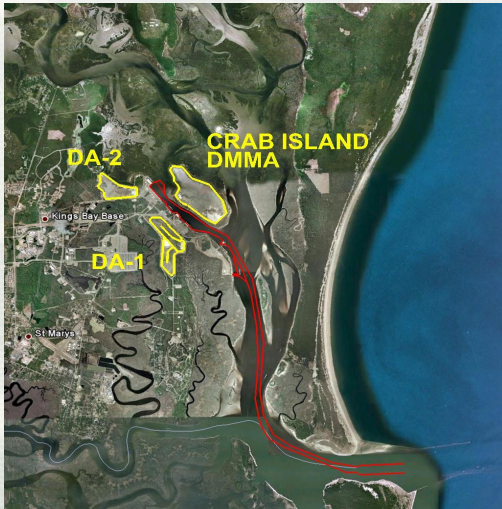
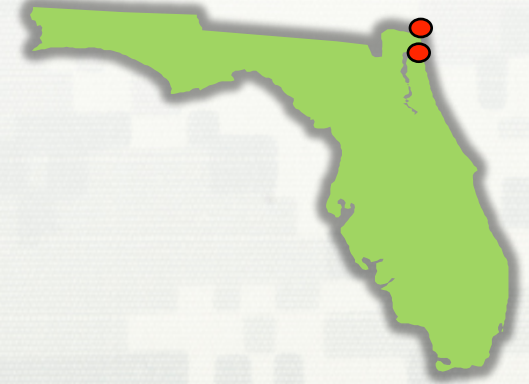
# Overview of SAJ FY 14 Dredging Projects

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# KINGS BAY INNER CHANNEL & USMC TERMINAL O&M



**KINGS BAY INNER CHANNEL**



**USMC TERMINAL**

**Location: Camden County, GA  
Duval County, FL**

**Dredge Type: Cutter-Suction**

**Placement: Upland**

**Quantity: 960,000 cy (880K KBIC & 80K USMC)**

**Depth: 44' and 46' + 2' allowable overdepth (KBIC)  
38' + 2' allowable overdepth (USMC)**

**Bus. Type: Small Business Set-Aside**

**Issue RFP: 11 June 2014**

**Receive RFP: 16 July 2014**

**Award: 19 August 2014**

**NTP: 24 September 2014**

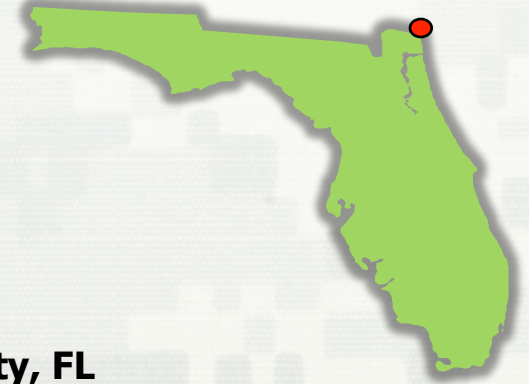
**Commence Dredging: 24 October 2014**

**Dredging Complete: 20 April 2015**





# KINGS BAY ENTRANCE CHANNEL O&M



**Location: Nassau County, FL**

**Dredge Type: Hopper**

**Placement: ODMDS/Beach**

**Quantity: 539,000 cy (390K cy ODMDS & 149K cy Beach)**

**Depth: 49' + 2' allowable overdepth**

**Bus. Type: Unrestricted**

**Advertise: 03 October 2013**

**Bid Opening: 05 November 2013**

**Award: 03 December 2013**

**NTP: 13 December 2013**

**Commence Dredging: January 2014**

**Dredging Complete: March 2014**





# JACKSONVILLE HARBOR O&M

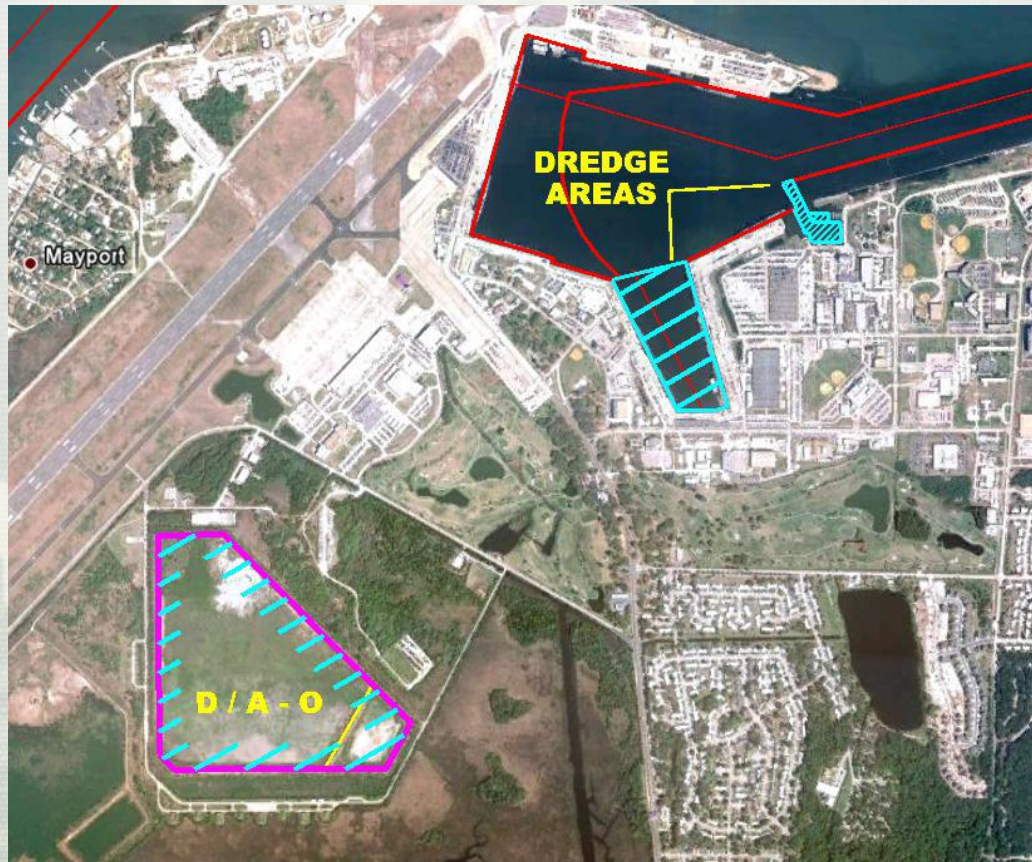
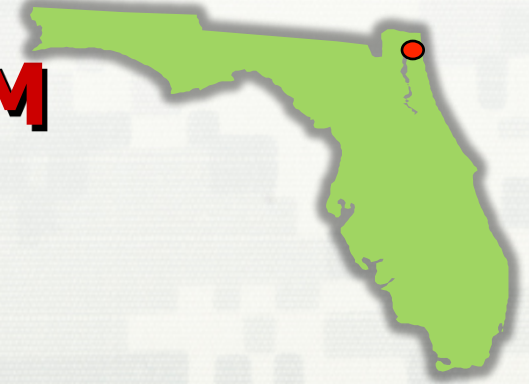


**Location:** Duval County, FL  
**Dredge:** Cutter-Suction/Hopper  
**Placement:** DMMA/Beach/ODMDS  
**Quantity:** 500,000  
**Depth:** 38' & 40' + 2' allowable overdepth  
**Bus. Type:** Unrestricted  
**Advertise:** June 2014  
**Bid Opening:** July 2014  
**Award:** August 2014  
**NTP:** October 2014  
**Commence Dredging:** Dec. 2014  
**Dredging Complete:** Mar. 2015





# NAVAL STATION MAYPORT O&M



**Location:** Duval County, FL

**Dredge Type:** Clamshell/Cutter-suction

**Placement:** Upland/ODMDS

**Quantity:** 400,00 cy.

**Depth:** 17' - 35' + 2' allowable overdepth

**Bus. Type:** Unrestricted

**Issue RFP:** August 2014

**Receive RFP:** September 2014

**Award:** October 2014

**Issue NTP:** November 2014

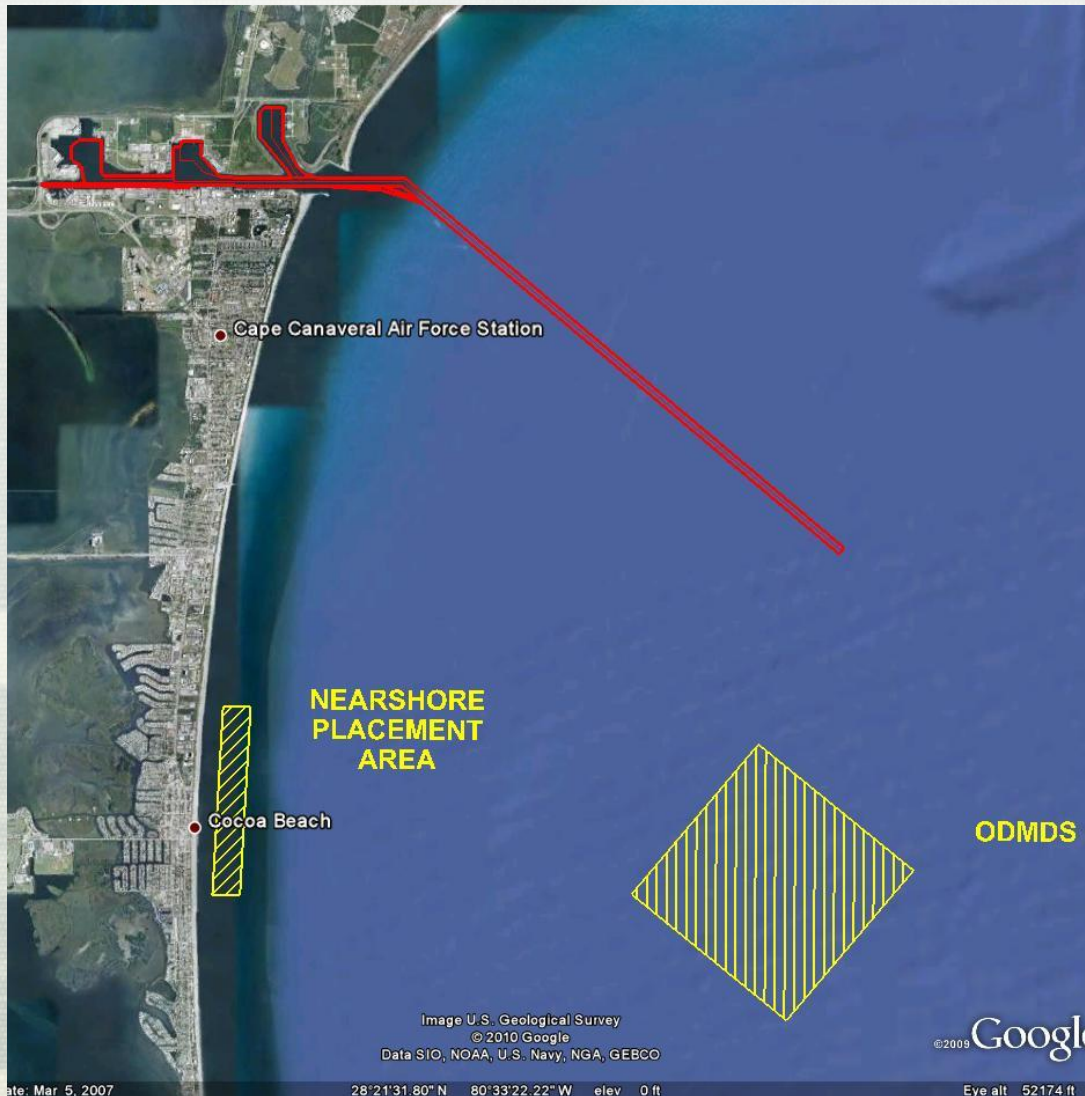
**Commence Dredging:** December 2014

**Dredge Complete:** February 2015





# CANAVERAL HARBOR O&M



**Location:** Brevard County, FL  
**Dredge Type:** Mechanical (Clamshell)  
**Placement:** Nearshore/ODMDS  
**Quantity:** 450,000 cy.  
**Depth:** 35' - 44' + 2' allowable overdepth  
**Bus. Type:** Unrestricted  
**Advertise:** June 2014  
**Bid Opening:** July 2014  
**Award:** August 2014  
**Issue NTP:** September 2014  
**Commence Dredging:** October 2014  
**Dredge Complete:** February 2015





# IWW – INDIAN RIVER REACH 1 O&M



**Location:** Indian River County, FL  
**Dredge Type:** Cutter-Suction  
**Placement:** Upland  
**Quantity:** 100,000 cy.  
**Depth:** 12' + 2' allowable overdepth  
**Bus. Type:** Small Business Set-Aside  
**Advertise:** May 2014  
**Bid Opening:** June 2014  
**Award:** July 2014  
**Issue NTP:** August 2014  
**Commence Dredging:** September 2014  
**Dredge Complete:** January 2015





# PALM BEACH HARBOR O&M



**Location:** Palm Beach County, FL  
**Dredge Type:** Cutter-suction/Hopper  
**Placement:** Beach/Nearshore  
**Quantity:** 250,000 cy.  
**Depth:** 25' - 37' + 2' allowable overdepth  
**Bus. Type:** Unrestricted  
**Advertise:** July 2014  
**Bid Opening:** August 2014  
**Award:** September 2014  
**Issue NTP:** October 2014  
**Commence Dredging:** November 2014  
**Dredge Complete:** January 2015





# MANATEE HARBOR O&M



**Location: Manatee County, FL**

**Dredge Type: Cutter-Suction**

**Placement: Upland**

**Quantity: 400,000 cy.**

**Depth: 40' + 2' allowable overdepth**

**Bus. Type: Small Business Set-Aside**

**Advertise: 13 May 2014**

**Bid Opening: 13 June 2014**

**Award: 09 July 2014**

**Issue NTP: 06 August 2014**

**Commence Dredging: 05 September 2014**

**Dredge Complete: 05 January 2015**





# TAMPA HARBOR O&M



**Location: Hillsborough County, FL**

**Dredge Type: Hopper/Clamshell**

**Placement: Beach (Egmont Key)**

**Quantity: 1,000,000 cy.**

**Depth: 43' – 45' + 2' allowable overdepth**

**Bus. Type: Unrestricted**

**Advertise: 14 April 2014**

**Bid Opening: 15 May 2014**

**Award: 08 July 2014**

**Issue NTP: 07 Aug 2014**

**Commence Dredging: 08 September 2014**

**Dredge Complete: 15 February 2015**





# Mobile District Dredging Program

George F. Rush, Dredging Project Manager

October 15, 2013

US Army Corps of Engineers  
**BUILDING STRONG®**



# Mobile District FY14 Dredging Program

## South Atlantic Division

Hopper

Pipeline

Awarded Contract

FY 14

Updated 07 Oct 2013

General Navigation POC:

George F. Rush 251-694-3715

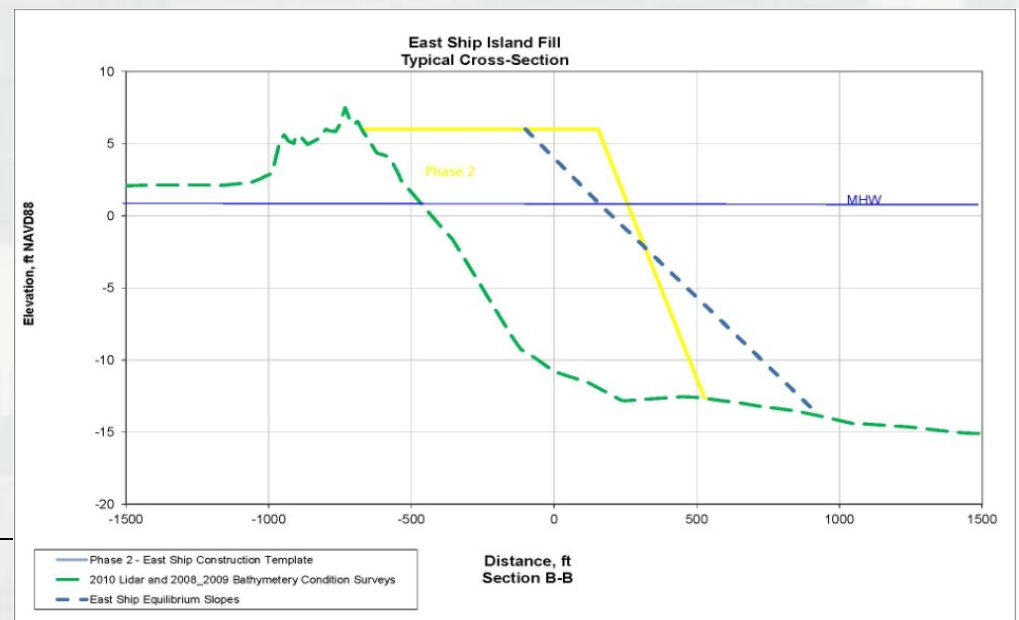
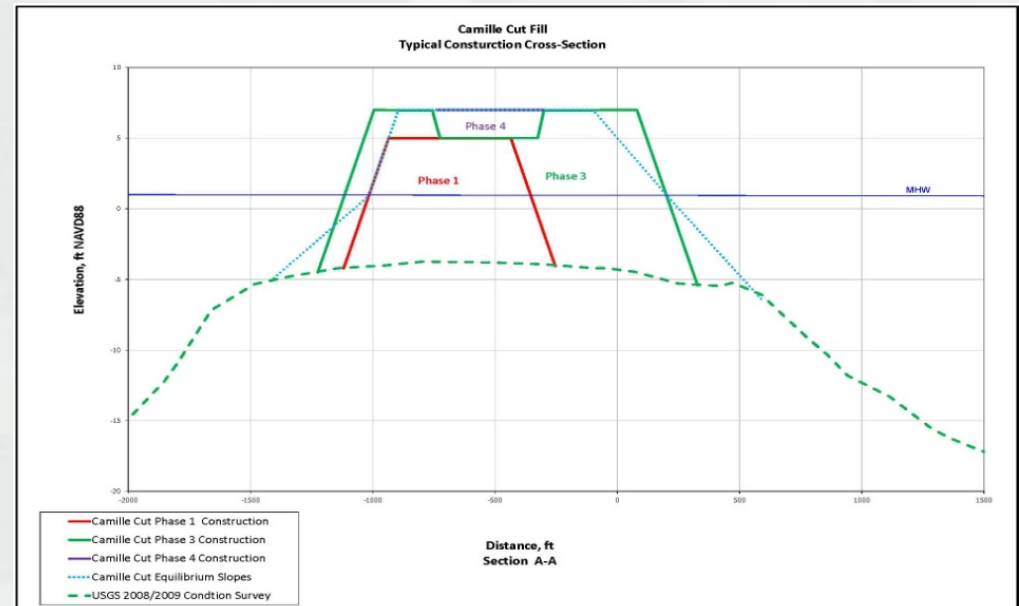
Project	Contractor & Dredge	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
Mobile Harbor, AL FY13 #2, Hopper Rental	Dutra Columbia \$8M IDIQ												
		POC - Ashley Kleinschrodt 251-694-3726											
Mobile Harbor, AL FY14 #1, Hopper Rental	Adv 22 Aug 13 BO 13 Apr 14 \$8M IDIQ												
		POC - Ashley Kleinschrodt 251-694-3726											
Mobile Harbor, AL FY14 #2, Hopper Rental	Adv TBD BO TBD \$8M IDIQ			Hurricane Contingency									
		POC - Ashley Kleinschrodt 251-694-3726											
Coastal Cutterhead Rental 24-27-30 inch Cutterhead W91278-12-D-0048	Weeks Marine Captain Frank \$50M IDIQ  Contract Exp 6 Feb 14	Gulfport	Pascagoula										
				Mobile									POC - Don Greene 251-694-3730
Coastal Cutterhead Rental 27-30 inch Cutterhead	Adv Dec 2013 BO TBD \$45M IDIQ												POC - Ashley Kleinschrodt 251-694-3726
Mobile District Rental 24 inch Cutterhead	Inland Kelly L Apparent low \$45M IDIQ												
				GIWW									
													POC - Kelly McElhenney 251-694-3722
Barrier Island Restoration Petit Bois Borrow Area 1 to Camille C	Adv 28 May 2014 Select/Award 27 Jun 14												
Phase 1, 52 wks	\$100M							Aug 2014-Aug 2015				POC - Don Greene 251-694-3730	
Pascagoula Bar Widening	Adv 18 Oct 13 BO 03 Dec 13 C Contract 1 MCY												
					POC - Kelly McElhenney 251-694-3722								



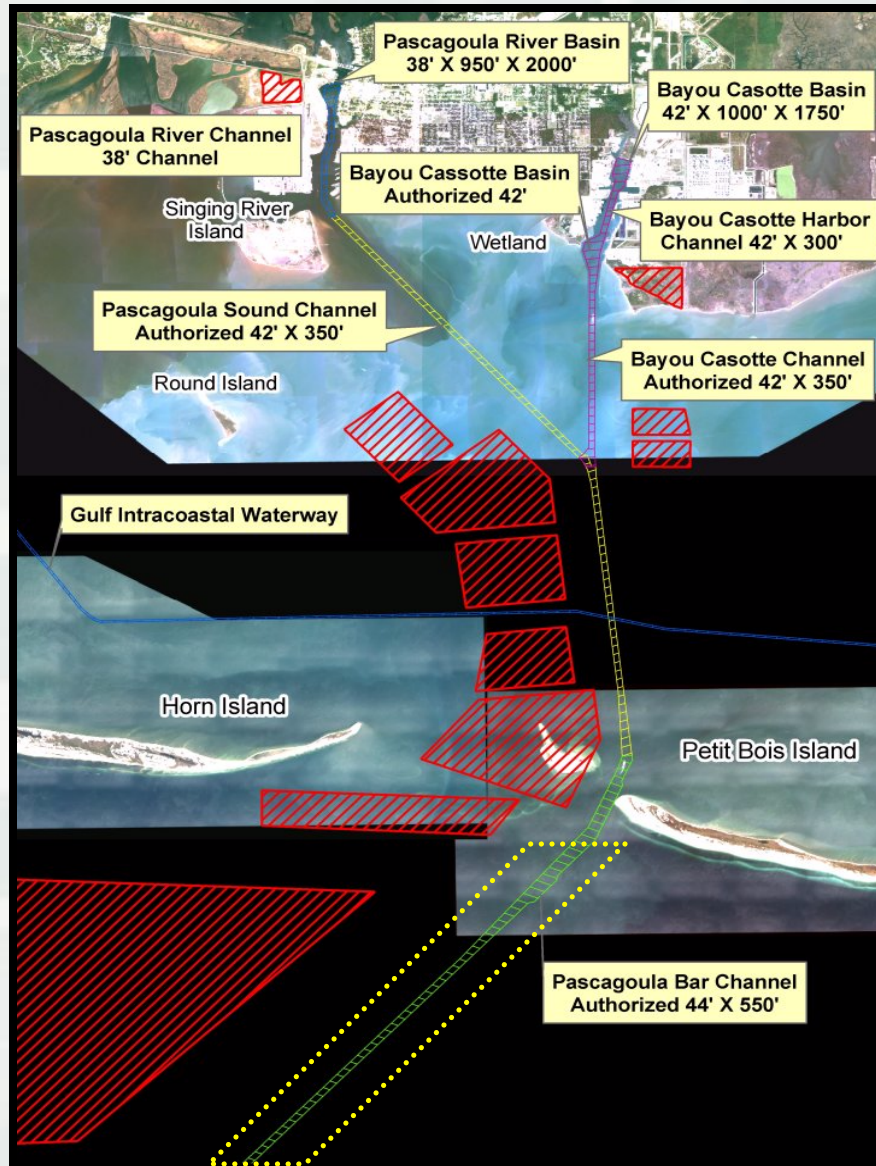
# BARRIER ISLAND RESTORATION

## ■ Construction Phases

- ▶ Phase 1 (6.1 m.c.y.)
  - Initial closure of Camille Cut
  - Top of Berm = EL. +5 ft NAVD88
  - Crest Width = 500 ft
- ▶ Phase 2 (4.8 m.c.y.)
  - East Ship Island
  - Top of Berm = EL. +6 ft NAVD88
  - Crest Width = 1,100 ft
- ▶ Phase 3 (7.4 m.c.y.)
  - Widen and raise Camille Cut Fill
  - Top of Berm = EL. +7 ft NAVD88
  - Crest Width = 1,000 ft
- ▶ Phase 4 (1 m.c.y.)
  - Cap Camille Cut Fill
  - Finer grained sand



# PASCAGOULA BAR WIDENING



- Type of Work: New
- Width: Widen Bar Channel from 450 ft to 550 ft
- Length: 6 Miles
- Quantity: 1Mcy
- Type of Material: Sands and Clay
- Placement Area: Ocean D/A
- Distance to Placement Area: 4 Miles
- Type of Equipment: Hopper
- Small Business Set Aside: No
- Schedule: B.O. 03 Dec 13



**BUILDING STRONG®**